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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A media router comprising:

a media routing control part for giving a fixed unit of time stamp, a TS (Transport

Stream) packet number, to every each TS packet of a TS (Transport Stream) of a digital

broadcasting or an analog broadcasting signal, and extracting index information including at

least one of the TS packet number and information on a type of picture from the TS having the

time stamp added thereto; and,

a storage part for receiving and storing the TS having the time stamp added thereto and

the index information from the media routing control part and storing therein.

2. (Currently Amended) A The media router as claimed in claim 1, wherein the media

routing control part includes:

a multiplexer for selecting and forwarding one of the TSs of the digital broadcasting

signal and the analog broadcasting signal;

a format converting part for giving a the time stamp to the TS from the multiplexer to

synchronize, and extracting the index information; and

a demultiplxer for selecting one of outputs of the multiplexer and the format converting

part.

3. (Currently Amended) A The media router as claimed in claim 2, further comprising:

a scrambling/descrambling part for scrambling the TS having the time stamp given

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thereto and the index information or descrambling scrambled information from the storage part.

4. (Currently Amended) A The media router as claimed in claim 1, wherein the TS and

the index information from the media routing control part are stored in the storage part through a

PCI (Peripheral Component Interface) bus.

5. (Currently Amended) A The media router as claimed in claim 1, wherein the storage

part includes;

a system memory for storing the TS and the index information from the media routing

control part; and

a storage medium for receiving the TS and the index information stored in the system

memory and storing the TS and the index information, again.

6. (Currently Amended) A The media router as claimed in claim 5, wherein the TS and

the index information stored in the system memory is stored in the storage medium by DMA

(Direct Memory Access) transmission.

7. (Currently Amended) A The media router as claimed in claim 5, wherein the storage

medium is either an HDD (Hard Disc Drive) or a DVD (Digital Versatile Disc).

8. (Canceled).

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9. (Currently Amended) A media router comprising:

a PID (Program Identification) filter part for selecting only a TS (Transport Stream) of a

desired program from a received digital broadcasting signal and forwarding the TS;

an MPEG-2 encoder for coding a received analog broadcasting signal into an MPEG-2

TS format, and forwarding the coded analog broadcasting signal;

a media routing control part for giving a time stamp to every each TS packet from the

PID filter part or every each TS packet of the analog broadcasting signal from an the MPEG-2

encoder to; synchronize the TS packet, and extracting index information including at least one of

a TS packet number and information on a type of picture;

a memory part for storing the TS synchronized at the media routing control part and the

index information; and

a decoding part for receiving, decoding, and displaying a broadcasting signal or a signal

reproduced through the memory part, and the media routing control part.

10. (Currently Amended) A The media router as claimed in claim 9, wherein the media

routing control part includes;

a multiplexer for selecting and forwarding one of the TSs of the digital broadcasting

signal and the analog broadcasting signal;

a format converting part for giving a the time stamp to the TS from the multiplexer to

synchronize, and extracting index information;

a demultiplier for selecting one of outputs of the multiplexer and the format converting

part; and

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a scrambling/descrambling part for scrambling the TS having the time stamp given

thereto and the index information or descrambling scrambled information from the storage part.

11. (Currently Amended) A The media router as claimed in claim 9, wherein the storage

part includes;:

a system memory for storing the TS and the index information from the media routing

control part; and

a storage medium for receiving the TS and the index information stored in the system

memory and storing the TS and the index information, again.

12. (Currently Amended) A The media router as claimed in claim 11, wherein the TS

and the index information stored in the system memory is stored in the storage medium by DMA

(Direct Memory Access) transmission.

13. (Currently Amended) A The media router as claimed in claim 9, wherein the TS and

the index information from the media routing control part are stored in the storage part through a

PCI bus (Peripheral Component Interface).

14. (Canceled).

15. (Currently Amended) A method for recording a broadcasting signal by using a media

router having a media routing control part and a storage medium, the method comprising the

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steps of:

(a) selecting one of TSs (Transports Streams) of a received digital broadcasting signal

and a received analog broadcasting signal;

(b) adding a time stamp to a selected TS to synchronize, and extracting index information

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including at least one of a TS packet number and information on a type of picture, for converting

a format of the TS; and,

(c) storing the TS having the time stamp added thereto and the index information in a

storage medium.

16. (Currently Amended) A The method as claimed in claim 15, further comprising the

steps of:

determining whether a format converted TS is scrambled or not; and,

scrambling and storing the TS if the TS is to be scrambled as a result of the

determination, and storing the TS without scrambling the TS if the TS is not to be scrambled as a

result of the determination.

17. (Currently Amended) A The method as claimed in claim 15, further comprising

the step of:

setting a password at the storage medium to inhibit recording/reproduction after the

step (c).

18. (Currently Amended) A method for reproducing a broadcasting signal by using a

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media router having a media routing control part and a storage medium, the method comprising

the steps of:

(a) converting formats of a time stamp and index-information stored in the storage

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medium or a format of the TS only a format of corresponding TS (Transport Stream) packets

within the storage medium with reference to index information including a TS packet number,

type of picture and a time stamp given to each TS packet stored in the storage medium, when a

trick mode reproduction is to be performed; and,

(b) decoding, and displaying a format converted TS.

19. (Currently Amended) A The method as claimed in claim 18, wherein the step (a)

includes the step of descrambling the TS before the format conversion, if the TS stored in the

storage medium is in a scrambled state.

20. (Canceled).